Running your program with Eclipse.

1. Open the NIOSII Software Build Tools for Eclipse and choose a new Workspace.

2. Create a new NIOSII Application

File -> New -> NIOSII Application and BSP from Template

3. Choose your .sopcinfo file from the system that you created in the lab. \*\*Verify that you’re in the right directory\*\*

4. Set your project name and choose the Blank Project Template, then Finish.

5. To get your Project built, there are a few files that you need to move around.

a. Copy the src directory from /crc\_sw/app/ into your project.

b. Copy all of the files (including the directories) from /crc\_sw/bsp to your <project name\_>bsp project.

6. Build the <project name>\_bsp

7. Build the <project name>.

8. Run with the NIOSII Hardware Configuration.

— Additional Nodes —

1. Verify that after modifying the QSYS a new .sopcinfo file is generated.

2. Remove the Makefile and recompile the application in /crc\_sw/app after recompiling the system.

3. Copy over the new files from /crc\_sw/bsp.

4. Clean and re-build both projects in Eclipse.

5. Right-click on the BSP project, and go to Nios II -> BSP Editor, and explore the settings. Specifically, set the hardware timer for sys\_clk\_timer, timestamp\_timer to be the timer you have declared in Qsys.